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1 tgggtgtgtcccttgctctgccaacgttgattgtttcatgacattaatctacgtgc
 1 Met Thr Leu Ile Tyr Val
 61 cttcaatatttacaatgggtcccctcaatcacacggattgtactggttaacattctgttgg
 7 Pro Ser Ile Phe Thr Met Val Pro Ser Ile Thr Arg Ile Val Leu Val Asn Ile Leu Leu
 121 cgacgttggttttgggagctgcagtccttccacgagacaacagaactgtttgctgggagtc
 27 Ala Thr Leu Val Leu Gly Ala Ala Val Leu Pro Arg Asp Asn Arg Thr Val Cys Gly Ser
 181 aactctgcacatgggtggcagactccggcgagataaacaccgggtactcctgtacaggcag
 47 Gln Leu Cys Thr Trp Trp His Asp Ser Gly Glu Ile Asn Thr Gly Thr Pro Val Gln Ala
 241 gaaacgttcgacaatccccgaaagtactctgtccatgtgagcctggcagaccgtaaccaat
 67 Gly Asn Val Arg Gln Ser Arg Lys Tyr Ser Val His Val Ser Leu Ala Asp Arg Asn Gln
 301 tctacgactctttcgtatatgaatcgatacctaggaacggcaatggcagaattttattctc
 87 Phe Tyr Asp Ser Phe Val Tyr Glu Ser Ile Pro Arg Asn Gly Asn Gly Arg Ile Tyr Ser
 361 ccaccgaccacctaacagcaatacattgaatagtagcattgacgacgggtatatcaatcg
 107 Pro Thr Asp Pro Pro Asn Ser Asn Thr Leu Asn Ser Ser Ile Asp Asp Gly Ile Ser Ile
 421 aacctctctcggcatcaacatggcttgggtccagttcgaatatagacgagatgtcgaca
 127 Glu Pro Ser Leu Gly Ile Asn Met Ala Trp Ser Gln Phe Glu Tyr Arg Arg Val Asp
 481 ttaagattactacaatcgatggctcaatattggatggcccttggacattgtttattcggc
 147 Ile Lys Ile Thr Thr Ile Asp Gly Ser Ile Leu Asp Gly Pro Leu Asp Ile Val Ile Arg
 541 cgacttctgttaagtactcagtcacaaagatgtgtgggtggtatcattattagagtcctt
 167 Pro Thr Ser Val Lys Tyr Ser Val Lys Arg Cys Val Gly Gly Ile Ile Ile Arg Val Pro
 601 atgatcccaatgggtcgaaaattctctgttgagttaaagagtacacattacagttacctt
 187 Tyr Asp Pro Asn Gly Arg Lys Phe Ser Val Glu Leu Lys Ser Asp Leu Tyr Ser Tyr Leu
 661 ccgacggttcgcaatatgtgacctctggaggagcgtggttgggtgagccaaaaaatg
 207 Ser Asp Gly Ser Gln Tyr Val Thr Ser Gly Gly Ser Val Val Gly Val Glu Pro Lys Asn
 721 ccctgggtgatcttccagcccttcttccacgggatgtgttctcatatgacaccac
 227 Ala Leu Val Ile Phe Ala Ser Pro Phe Leu Pro Arg Asp Met Val Pro His Met Thr Pro
 781 acgacaccagacaatgaagccgggcccacatcaataatggggactgggggttcaaagccta
 247 His Asp Thr Gln Thr Met Lys Pro Gly Pro Ile Asn Asn Gly Asp Trp Gly Ser Lys Pro
 841 tactctacttcccgcctggcggtatactggatgaacgaggatacctctggtaaccccgga
 267 Ile Leu Tyr Phe Pro Pro Gly Val Tyr Trp Met Asn Glu Asp Thr Ser Gly Asn Pro Gly
 901 agctcggctcaaatcatatgctggctggaatcccaatacctactgggtccatctagccccag
 287 Lys Leu Gly Ser Asn His Met Arg Leu Asp Pro Asn Thr Tyr Trp Val His Leu Ala Pro
 961 gagcctatgtgaaaggagccattgagtatttcacgaagcaaaatttctatgcaacgggtc
 307 Gly Ala Tyr Val Lys Gly Ala Ile Glu Tyr Phe Thr Lys Gln Asn Phe Tyr Ala Thr Gly
 1021 atggcgttctctcaggtgagaactatgtttatcaggccaatgcagctgataactactatg
 327 His Gly Val Leu Ser Gly Glu Asn Tyr Val Tyr Gln Ala Asn Ala Ala Asp Asn Tyr Tyr
 1081 ccgtcaagagtgtatggcacaagcttgagaatgtggtggcacaacaaccttggaggcggtc
 347 Ala Val Lys Ser Asp Gly Thr Ser Leu Arg Met Trp Trp His Asn Asn Leu Gly Gly Gly
 1141 aaacatgggttttgcacgtggggcccaccattaatgcaccgcttataacgatggacttca
 367 Gln Thr Trp Phe Cys Met Gly Pro Thr Ile Asn Ala Pro Pro Phe Asn Thr Met Asp Phe
 1201 acggaaactctaataatttccagccggtatgtactataagcaggttggcgcttattttt
 387 Asn Gly Asn Ser Asn Ile Ser Ser Arg Ile Ser Asp Tyr Lys Gln Val Gly Ala Tyr Phe
 1261 tccaaacagacggaccggagatctacgaggacagtgttgcctgacgttcttctggcag
 407 Phe Gln Thr Asp Gly Pro Glu Ile Tyr Glu Asp Ser Val Val His Asp Val Phe Trp His
 1321 ttaatgatgatgccatcaagacatattattccggagcttcaatttcagagcaaccatct

FIG. 1a

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427 Val Asn Asp Asp Ala Ile Lys Thr Tyr Tyr Ser Gly Ala Ser Ile Ser Arg Ala Thr Ile
1381 ggaagtgtcacaatgacccgatcatacagatgggctggacgtcacgaaatctcaccggaa
447 Trp Lys Cys His Asn Asp Pro Ile Ile Gln Met Gly Trp Thr Ser Arg Asn Leu Thr Gly
1441 tcagcattgataacctgcacgtcatccacacgagatatttcaaactctgaaacagtgggttc
467 Ile Ser Ile Asp Asn Leu His Val Ile His Thr Arg Tyr Phe Lys Ser Glu Thr Val Val
1501 cttcagcaatcattggagcgtctccattctacgcaagtgggaatgactgttgatcccagcg
487 Pro Ser Ala Ile Ile Gly Ala Ser Pro Phe Tyr Ala Ser Gly Met Thr Val Asp Pro Ser
1561 agtccatcagcatgaccatctctaactgtgtgtgagggtctatgccccctcactgttcc
507 Glu Ser Ile Ser Met Thr Ile Ser Asn Val Val Cys Glu Gly Leu Cys Pro Ser Leu Phe
1621 gtatcactccgcttcagagctacaacaacctgtgtgtcaagaacgtggcctttcccgatg
527 Arg Ile Thr Pro Leu Gln Ser Tyr Asn Asn Leu Val Val Lys Asn Val Ala Phe Pro Asp
1681 gactgcagacaaatccaatcggaataggagagagcattataccagcagcttccggctgta
547 Gly Leu Gln Thr Asn Pro Ile Gly Ile Gly Glu Ser Ile Ile Pro Ala Ala Ser Gly Cys
1741 caatggacttggaaatcacaaactggaccgtcaaaggacaaaaagtcaccatgcaaaact
567 Thr Met Asp Leu Glu Ile Thr Asn Trp Thr Val Lys Gly Gln Lys Val Thr Met Gln Asn
1801 ttcagtccgggtcacttggccagttcgatatcgatgggttcatactgggggtcaatggtcca
587 Phe Gln Ser Gly Ser Leu Gly Gln Phe Asp Ile Asp Gly Ser Tyr Trp Gly Gln Trp Ser
1861 taaactaaagctattcccatcacctgagtattttcgtgggttcaatgagttcttgttac
607 Ile Asn *
1921 tgatggggcccttgctagtggtaaaagtagagggactgtcctcgccgggcgccaaggaa
1981 gttcatgtcttctagttagaatagatttgtttcttctctctcgttaaaaaaaaaaaaaaaa
2041 aaaaaaaaaaaaaa 2052

FIG. 1b

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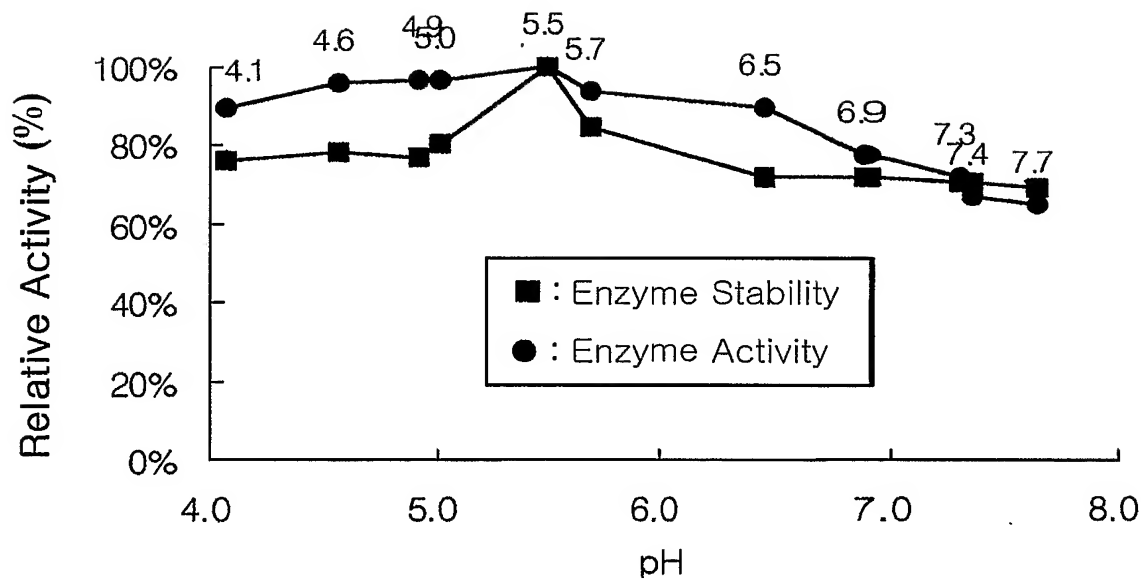


FIG. 2

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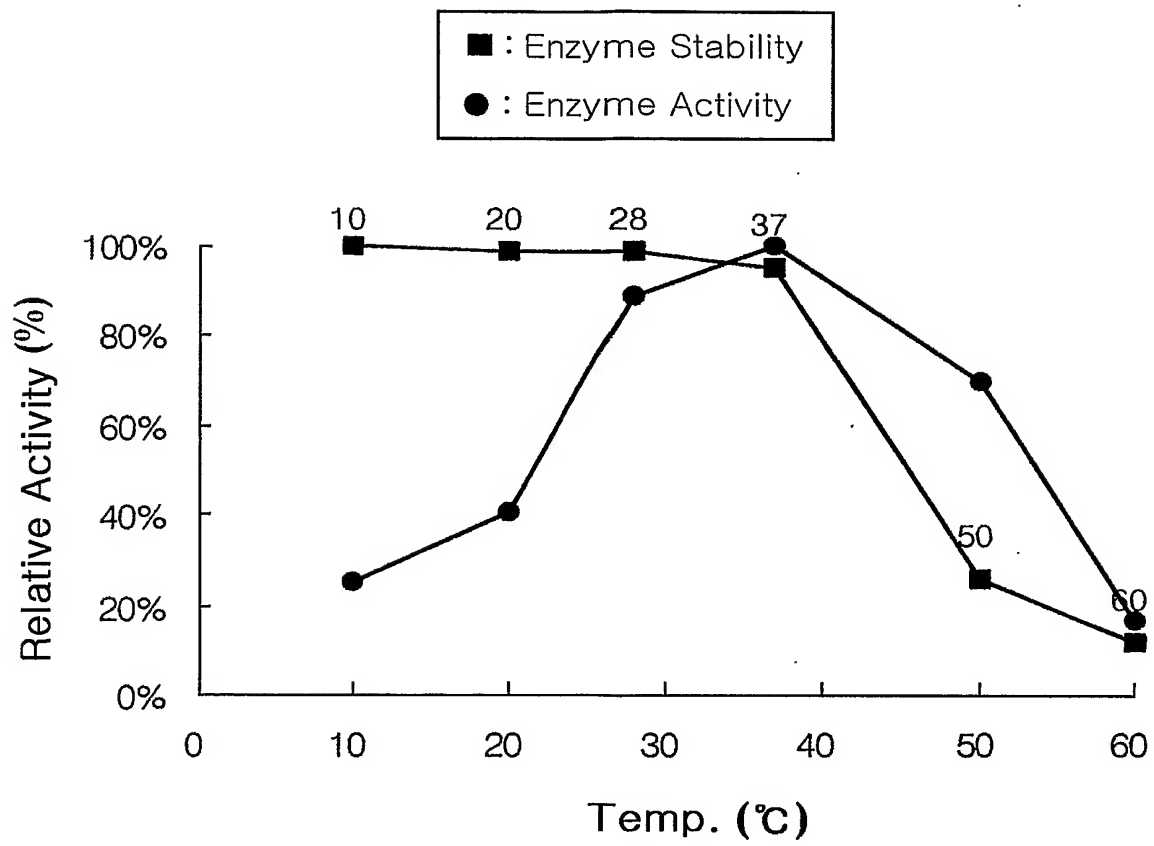


FIG. 3

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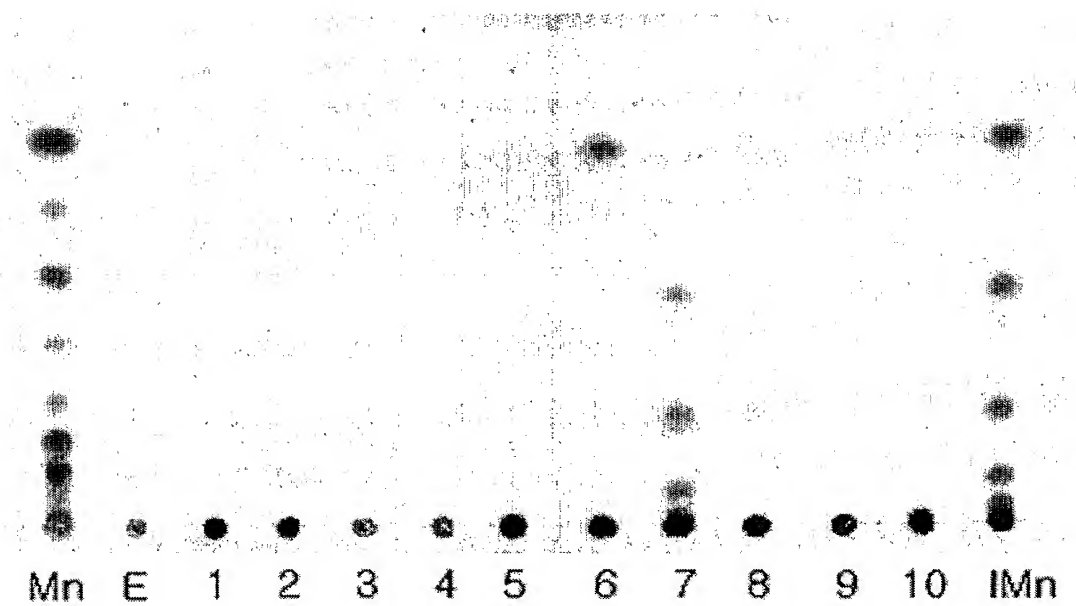


FIG. 4

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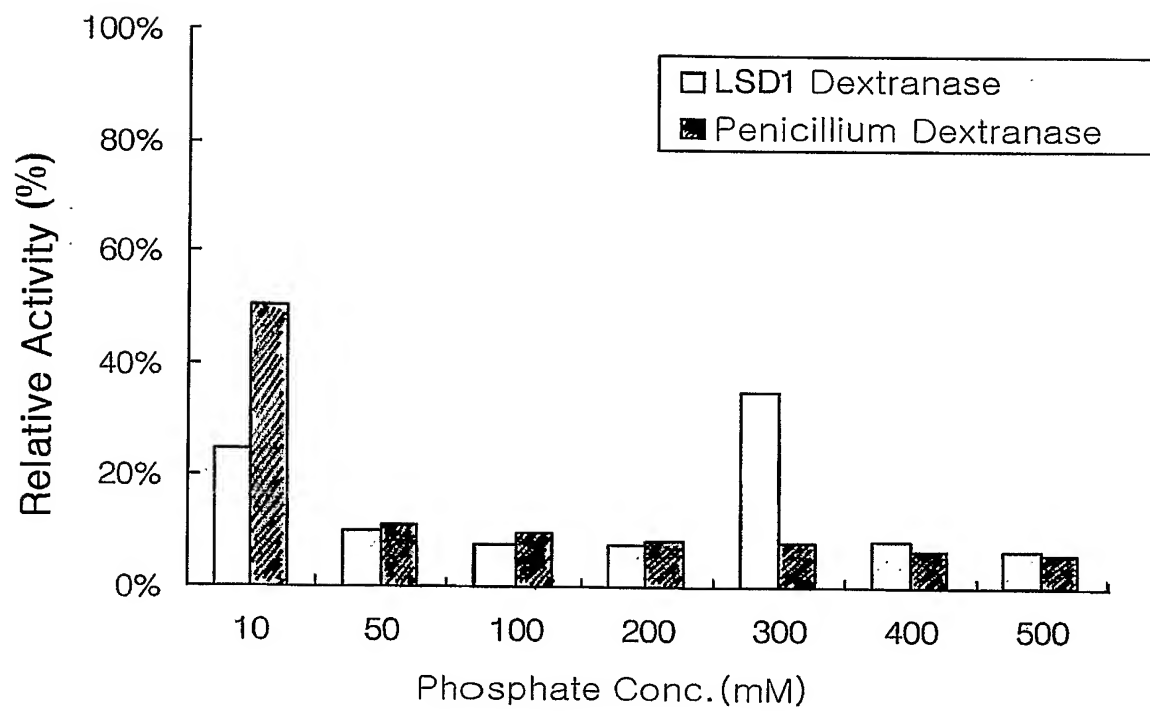


FIG. 5